



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

June 11, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8503949, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 1109
Farm Name: GUMM, S. M.
API Well Number: 47-8503949
Permit Type: Plugging
Date Issued: 06/11/2015

Promoting a healthy environment.

06/12/2015

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1) Date: April 6, 2015 **47 085 039 49**
2) Operator's Well Number
WV 654381 (Grimm #1109)
3) API Well No.: 47 085 - 03949 **f**
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
NOTICE AND APPLICATION TO PLUG AND ABANDON WELL**

4) Surface Owner(s) to be served:
(a) Name Jessie J. Wilburn, Samuel Grimm
Address Charlotte Grimm
932 Samuel Grimm Rd.
Pullman WV 26421
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector David Cowan
Address 1597 Devil Hole Road
Harrisville, WV 26362-7543
Telephone _____

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Jessie J Wilburn, Samuel Grimm
Charlotte Grimm
Address 932 Samuel Grimm Rd.
Pullman WV 26421
Name _____
Address _____
(c) Coal Lessee with Declaration
Name None
Address _____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

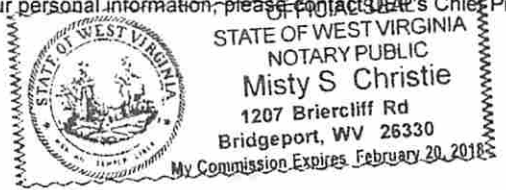
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
 - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator: EQT Production Company
By: Victoria J. Roark
Its: Permitting Supervisor
Address: PO Box 280
Bridgeport, WV 26330
Telephone: (304) 848-0076

Subscribed and sworn before me this 6th day of April, 2015
Misty S. Christie Notary Public
My Commission Expires: 2/20/18

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact the State's Chief Privacy Officer at depprivacyofficer@wv.gov.

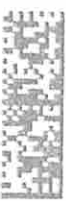


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Office of Oil & Gas
APR 08 2015
06/12/2015

04/06/2015

US POSTAGE

\$07.40⁰⁰



ZIP 26330
041L10228892

4708503949

Jesse J Wilburn, Samuel Grimm,
And Charlotte Grimm
932 Samuel Grimm Rd.
Pullman WV 26421
654381 Grimm1109 Plugging

U.S. Postal Service™
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OFFICIAL USE



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7014 2870 0000 7024 7968

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To
 Street or PO Box
 City, State
 PS Form

Jesse J Wilburn, Samuel Grimm,
 And Charlotte Grimm
 932 Samuel Grimm Rd.
 Pullman WV 26421
 654381 Grimm1109 Plugging

85-3949P

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Office of Oil & Gas
APR 08 2015

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Jesse J Wilburn, Samuel Grimm,
 And Charlotte Grimm
 932 Samuel Grimm Rd.
 Pullman WV 26421
 654381 Grimm1109 Plugging

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
X Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Certified Mail® Priority Mail Express™

06/12/2015

k 26330

47 08 5039 49

neopost[®]
04/06/2015
FIRST CLASS MAIL
\$02.87⁰

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041L10228892

David Cowan
1597 Devil Hole Road
Harrisville, WV 26362-7543

#657226
#604942 Plugging Permit :
#654381

85-3949P

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06/12/2015

WV 26330

mark



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EOT PRODUCTION COMPANY
LEASE NAME AND WELL No. S. M. Grimm #1109 - WV 654381 - API No. 47-085-03949

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 605 +/- Owner: Lilburn Wilburn
Address: 932 Samuel Grimm Rd., Pullman, WV 26421 Phone No. _____
Comments:

BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26350
phone: 304-848-5035
fax: 304-848-5037

CALDWELL OFFICE
212 Cumberland Street
Caldwell, OH 43724
phone: 740-305-5007
fax: 740-305-5126

ALUM CREEK OFFICE
P.O. Box 108 • 1413 Childress Rd
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

RANSOM OFFICE
401 South Fairfax Blvd, Suite 1
Martinsburg, WV 26150
phone: 304-724-5008
fax: 304-724-5000

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4708503949

Topo Quad: Pullman 7.5'

Scale: 1" = 2000'

County: Ritchie

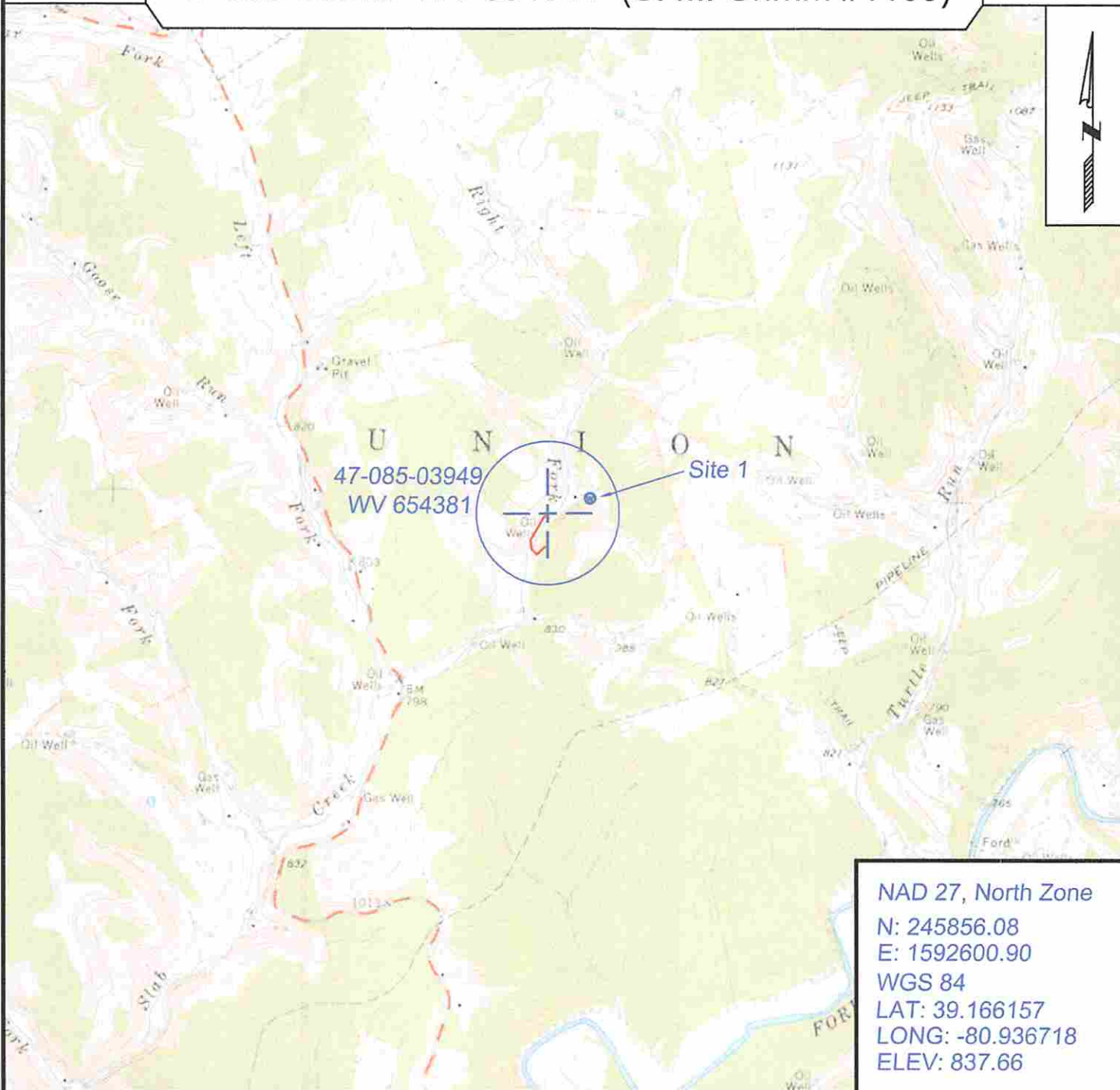
Date: March 24, 2015

District: Union

Project No: 68-38-00-08

Water

47-085-03949 WV 654381 (S. M. Grimm #1109)



47-085-03949
WV 654381

Site 1

NAD 27, North Zone
 N: 245856.08
 E: 1592600.90
 WGS 84
 LAT: 39.166157
 LONG: -80.936718
 ELEV: 837.66



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
Received
Office of Oil & Gas
EQT Production Company
 P.O. Box 2800
 Bridgeport, WV 26330

06/12/2015

CK# 19261
300.00
for a 4(3)

Date: 4708503949
April 6, 2015
Operator's Well
Well No. WV 654381 (Grimm #1109)
API Well No.: 47 085 - 03949 P

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil _____ Gas X Liquid Injection _____ Waste Disposal: _____
If Gas, Production _____ X Or Underground storage _____ Deep _____ Shallow X

5) Elevation: 838 Ft Watershed: Slab Creek
Location: Union County: Richie Quadrangle: Pullman 7.5'
District: _____

6) Well Operator EQT Production Company
120 Professional Place
Address: Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
Bridgeport, WV 26330

8) Oil & Gas David Cowan
Name: 1597 Devil Hole Road
Address: Harrisville, WV 26362-7543

9) Plugging Contractor:
Name: HydroCarbon Well Service
Address: PO BOX 995
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:
See Attachment for details and procedures.

OFFICE USE ONLY

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector

David Cowan by phone

Date 6/10/15

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Office of Oil & Gas

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06/12/2015

PLUGGING PROGNOSIS

Grimm.S.M. # 2-1109 (654381)
 Ritchie, Co. WV
 Clay, Union
 API # 47-035-03949
 BY: R.Green
 DATE: 02/09/15

CURRENT STATUS:

10" @ 162'
 8 1/4" @ 950'
 6 5/8" @ 1715'
 Elevation @ 837'

Fresh Water @ none reported
Salt Water @ none reported
Coal @ 440' (Pittsburgh Coal)
Gas Shows@ none reported
Oil Shows @ 1825' (Big Injun)

1. Notify State Inspector, **Dave Cowan**, 304-389-3509, 24 hrs. Prior to commencing operations.
2. TIH set 160' C1A cement plug, 1825' to 1665' (oil @ 1825' & 6 5/8" casing seat).
3. TOOH tbg to 1665', gel hole 1665' to 1500'TOOH tbg.
4. Free point 6 5/8" casing, cut casing @ free point, (est@ 1450') TOOH casing.
5. Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
6. TOOH tbg to 1400' gel hole 1400' to 1025'.
7. TOOH tbg to 1025', set 245' C1A cement plug, 1025' to 780' (Salt Sand, 8 1/4" casing seat, elevation)
8. TOOH tbg to 780' gel hole 780' to 700'TOOH tbg.
9. Free point 8 1/4" casing, cut casing @ free point(est @ 700'), TOOH casing.
10. Set 100' C1A cement plug 50' in/out of cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
11. TOOH tbg to 650', gel hole 650' to 450'.
12. TOOH tbg to 450', set 100' C1A cement plug 450' to 350' (coal @ 440').
13. TOOH tbg to 350', gel hole to 350' to 210'.
14. Set 210' C1A cement plug, 210' to surface.(10" casing seat). *Attempt to pull 10"*
15. Top off with cement as needed.
16. Erect monument with API#.
17. Reclaim road, location to WV-DEP specifications.

*GCS
 6/10/15*

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06/12/2015

Map Sheet No. _____ RECORD OF WELL Well No. 2-1109
 Drilled on G.H. Grimm Farm of 93 Acres, situate in _____
 Union Township County W.Va. Lease No. 6070-
 Shipping Point Toll Gate, W.Va. District Ritchie Foreman _____

Located June 14, 1922 Commenced Drilling Jan. 1st, 1923
 Notified Gen'l Office _____ Notified Gen'l Office _____
 Commenced Nov. 20, " Completed Drilling Jan. 28, "
 Completed " 24, " Notified Gen'l Office _____
 Contractor G.H. Jewart, Contractor J.W. McCall Oil & Gas Co.
 Address Pannsboro, W.Va. Address Pittsburgh, Pa.

ROCK FORMATION	TOP	BOTTOM	REMARKS	PRESSURE AND VOLUME
Conductor	9			1/2 Minute
Mapleton Coal	None			1 "
Pittsburgh Coal	440	446		2 "
Little Dunkard	None			3 "
Big Dunkard	None			4 "
Gas Sand	945	970		5 "
1st Salt Sand	1025	1100		10 "
2nd Salt Sand	1250	1310		15 "
Maxton Sand	1520	1645		30 "
Little Lime	1075	1690		1 Hour
Pencil Cave	1090	1693		Rock
Big Lime	1693	1768		Size of { Tubing Casing
Big Injun	1768	1843	Oil from 1825 to 1833	Vol. by Water
Gantz Sand				" " Mercury
50 Foot Sand				" " Pressure
30 Foot Sand				
Gordon Stray				CONNECTED TO MAIN LIN
Gordon Sand				
4th Sand				Length of Line
5th Sand				Size of Line
Bayard Sand				DISCONNECTED FROM LIN
Elizabeth				
Spechley				Notified Lessor
Bradford				Abandoned
				Repacked
				With Feet

as furnished by Carnegie Nat. Gas Company, flat rate. Total Depth 1843 Feet at \$ _____ per Foot \$ _____
 Gas Furnished at _____ Cents per Foot

CASING RECORD

SIZE	CHARGED TO WELL		PUT IN WELL		PULLED		LEFT IN WELL		TRANSFERRED		LEFT AT WELL		PACKER
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
10"	104		162		162		162		24		None		Received Office of Oil & Gas APR 08 2015 WELL SHOT 2-1 By _____ With <u>15</u> Qtz at <u>15.116</u>
6"	1838		950		950		950		888		"		
4"	1942		1715		"		1715		None		200		
2"			1843		1843		1843		0		(R.O. 8871)		

Casing Cemented in Well _____ by _____ Company: E

RECORD OF MATERIAL USED AT WELL

4708503949

Well on Sec. 3, T. 12N, R. 12E, S. 1E, Grinn Farm in Union Township, Ritchie County, W. Va.

BROUGHT FROM		Feet	In.	Date	TAKEN TO	Feet	In.
RIG							
Lawrence Cox	#5-736						
10" CASING							
7 Rogue	#3-1110	57		Jan 17	Lawrence Cox	#1-1142	24
1 Bruffey	#1	129					
8 1/2" CASING							
2 Toll Gate Yd.		888		Dec 4	Ward	#4-1144	785
1 Bruffey	#1	929		Jan 10	Lawrence Cox	#1-1142	103
6 5/8" CASING							
7 Rogue	#5-1110	180					
2 Dohd	#2-901	1545					
2 Rogue	#2-1012	105					
2 Lamin pipe yd.		86					
2 Lamin	#1-721	20					
5" CASING							
TUBING							
BRANCH LINE CONNECTING WELL							
MISCELLANEOUS							

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06/12/2015

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE**

Operator Name: EQT PRODUCTION COMPANY OP ID: _____

Watershed: Slab Creek Quadrangle: Pullman 7.5'

Elevation: 838 Ft County: Richie District: Union

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ___ No X

Will synthetic liner be used in the pit? Yes Is so, what ml.? 10 ml

Proposed Disposal Method for Treated Pit Wastes:

- Land Application
- Underground Injection - UIC Permit Number _____
- Reuse (at API Number) _____
- Offsite Disposal Permit #. _____
- Other: Explain _____

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____
If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? _____

Will closed loop system be used? _____

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____

If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust _____

Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

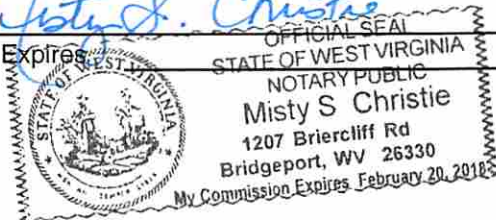
Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 6th day of April, 2015

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Office of Oil & Gas
2015
APR 08 2015

Misty S. Christie Notary Public

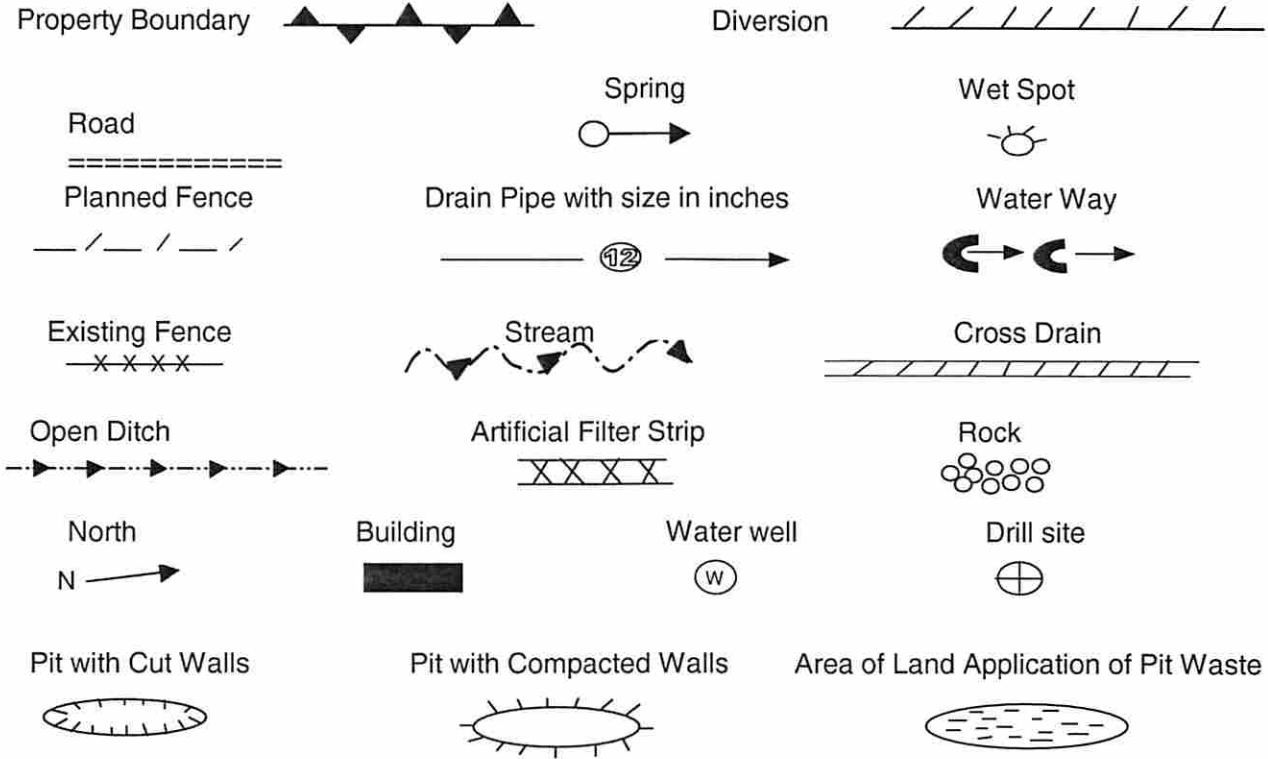
My Commission Expires 2/20/18



06/12/2015

OPERATOR'S WELL NO.:
WV 654381 (Grimm #1109)

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

SEED MIXTURES

Area I

Area II

Seed Type	lbs/acre
Red Fescue	40
Alsike Clover	5
Annual Rye	15

Seed Type	lbs/acre
Red Fescue	15
Alsike Clover	5

ATTACH:

Drawing(s) of road, location, pit and proposed area for land application.
 Photocopies section of involved 7.5' topographic sheet.

Plan approved by: Dave Cowan by Gene Smith (phone)

Comments: _____

Title: Inspector Date: 6/10/15
 Field Reviewed? Yes No

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 APR 08 2015

06/12/2015

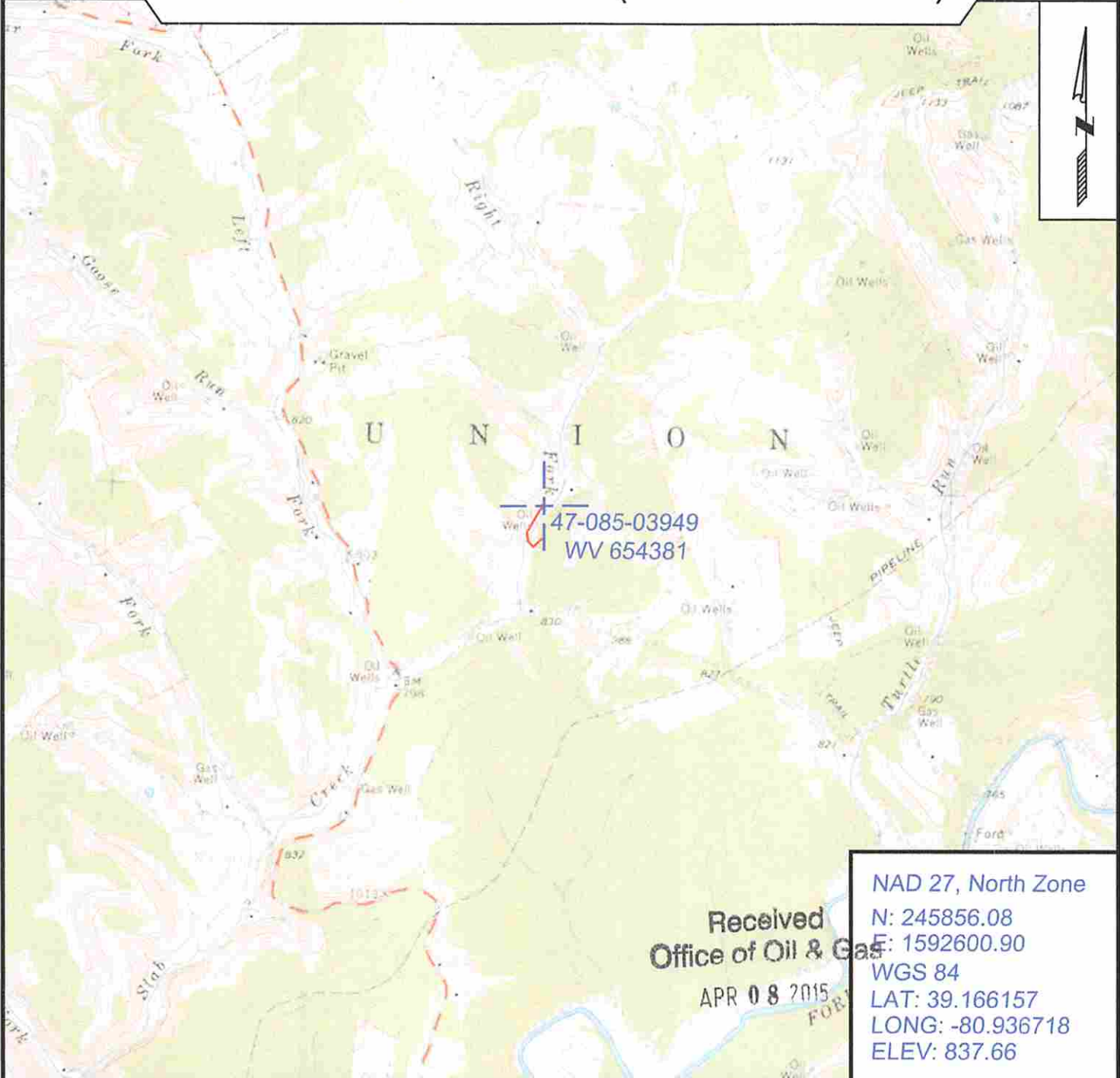
Topo Quad: Pullman 7.5' Scale: 1" = 2000'

County: Ritchie Date: March 24, 2015

District: Union Project No: 68-38-00-08

47-085-03949P WV 654381 (S. M. Grimm #1109)

Topo



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APR 08 2015

NAD 27, North Zone
 N: 245856.08
 E: 1592600.90
 WGS 84
 LAT: 39.166157
 LONG: -80.936718
 ELEV: 837.66



SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

06/12/2015



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-085-03949 P WELL NO.: WV 654381 (S. M. Grimm #1109)

FARM NAME: S. M. Grimm

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Ritchie DISTRICT: Union

QUADRANGLE: Pullman 7.5'

SURFACE OWNER: Samuel & Charlotte Grimm

ROYALTY OWNER: Jessie Jeanette Wilburn, et al.

UTM GPS NORTHING: 4335217

UTM GPS EASTING: 505467 GPS ELEVATION: 255 m (838 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS X : Post Processed Differential X
Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

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Office of Oil & Gas

APR 08 2015

Signature

PS# 2180
Title

3/27/15
Date

H

Operator: EQT PRODUCTION COMPANY
 API: 8503949
 WELL No: 1109
 Reviewed by: GCS Date: 6/10/15
 15 Day End of Comment: 04/13/15

* Well is on an Agreed Order *

CHECKLIST FOR FILING A PERMIT

Plugging

CK# 19261
 \$100.00

- WW-4B
- Inspector signature on WW-4B
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-9 (Page 1) (Notarized)
- Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (\$0.00 if no pit)